

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,921	11/20/2003	Frederick Curtis Furtek	021202-004310US	3337
37490	7590 06/14/2	006	EXAMINER	
	llectual Property La	VERBRUGGE, KEVIN		
1900 EMBA SUITE 109	1900 EMBARCADERO ROAD SUITE 109			PAPER NUMBER
	O, CA 94303		2189	
			DATE MAILED: 06/14/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summer		10/719,921	FURTEK ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Kevin Verbrugge	2189			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 20 November 2003.					
		s action is non-final.				
3)□	Since this application is in condition for allowa	condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)🖂	4)⊠ Claim(s) <u>1-32</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-32</u> is/are rejected.					
· —	Claim(s) <u>4</u> is/are objected to.					
8)∐	8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>20 November 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
			•			
Attachment(s)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Patent Application (PTO-152)			

Application/Control Number: 10/719,921

Art Unit: 2189

DETAILED ACTION

Claim Objections

Claim 4 is objected to because of the following informalities: "memory comprises" should be replaced with --memory interface comprises--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-32 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent Application Publication 2004/0015970 to Scheuermann.

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in

Art Unit: 2189

the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claims 1, 27, 30, 31, and 32, Scheuermann shows the claimed memory controller in an adaptable computing machine (ACM) as external/internal embedded SDRAM memories and controller 1004 at the right side of Fig. 1. Scheuermann teaches at paragraph 11 that his adaptive computing engine (ACE) shown in Fig. 1 includes "bulk memory interfaces to high performance memory controllers and associated memories 1004."

Scheuermann does not show or disclose much more about the memory controller inside element 1004, however it clearly contains the claimed network interface since it clearly receives memory requests from the programmable network as claimed. Similarly, Scheuermann's memory controller clearly contains the claimed memory interface since it accesses a memory to fulfill the memory request as claimed.

Regarding claims 2, 6, 10, and 12-26, Scheuermann does not explicitly teach that his memory controller includes one or more engines to provide memory access services, however it is clear that his controller necessarily includes at least one such engine since it provides memory access services as claimed.

Regarding claims 3, 7, 8, 11, and 28, Scheuermann does not explicitly teach that his memory controller provides at least one of the claimed services, however it is clear

Page 4

Art Unit: 2189

that his device at least provides a memory random access service (standard memory accessing is random) and likely also includes at least a DMA service (another standard memory access service).

Regarding claims 4 and 29, Scheuermann clearly shows that his memory includes SDRAM (see item 1004 in Fig. 1) so his memory controller would necessarily include the claimed SDRAM interface.

Regarding claims 5 and 9, since Scheuermann's device is directed to flow control within an ACE (see brief description of Figs. 3 and 4 and the first sentence of paragraphs 10 and 11), it is clear that the network interface of his memory controller provides flow control as claimed.

Conclusion

Any inquiry concerning this Office action should be directed to the Examiner by phone at (571) 272-4214.

Any response to this Office action should be labeled appropriately (including serial number, Art Unit 2189, and type of response) and mailed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, hand-carried or delivered to the Customer Service Window at the Randolph Building, 401 Dulany Street, Alexandria, VA 22313, or faxed to (571) 273-8300.

Application/Control Number: 10/719,921

Art Unit: 2189

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197.

Kevin Verbrugge

Primary Examiner

Art Unit 2189